## NITRATE DESERT

CHILEAN ENTERPRISE IN WHICH \$100,000,000 IS INVESTED.

ABORATORY OF THE GODS

HOW NITRATE IS MINED, WHAT IT COSTS. THE PROFITS.

Extent of the Deposits From Which Chile Gets Half Her Revenue-

here to some of the richest fields and have spent a day at the great nitrate oficina of the Agua Santa Company, which has a caplical of Agua Santa Company, which has a caplical of poorbe of the method of getting this product out of the earth, let me show you where these wonderful fields are. In the first place, the word field is misleading, It conveys the idea of fences and fixed boundaries. The nitrate fields are scattered over the desert, and their only boundaries are white posts at the corners of the different properties. There is not enough waste wood in the whole desert to make a line fence about a city lot.

There is not a biade of grass, and with here and there a glint of white where the sait rock has caught the rays of the sun. There are few more barren places in the world than the Chilean desert. The coasts of the upper part of the country are as bleak as the most harren parts of the Rocky mountains, and this sand and rock extend infand almost to the tops of the Andes. Along the coast there is a low range of foot hills rising in places to the height of a mile and more above the sea. Beyond this there is a rolling valley which runs from north to south, and on the other side of this valley that the nitrate is found, In some places it is not more than fifteen miles and in others as far as ninety miles wide, and in others it plays out altogether and crops out some distance further on. In some places the deposit is four miles wide, and in others it plays out altogether and crops out some distance further on. In some places the deposit is four miles wide, and in others it plays out altogether and crops out some distance further on. In some places the deposit is out altogether and c The Cities of the Desert or

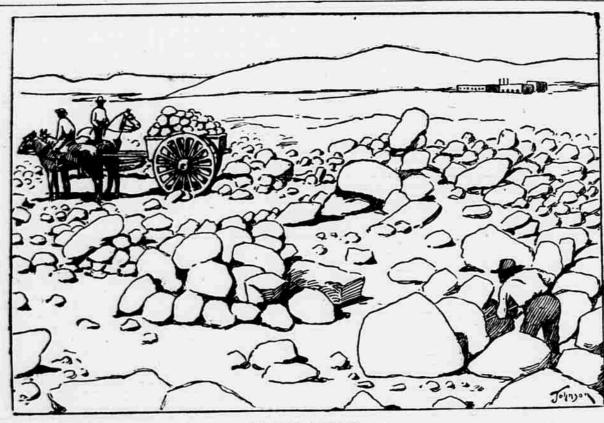
Nitrate Towns and Their

Peculiar Features.

(Copyright, 1898, by Frank G. Carpenter.)

IQUIQUE, CHILE, July 14.—For the past three weeks I have been traveling through a vast chemical laboratory of the gods. I have ridden over miles of plains covered with salt, have visited lakes of the whitest borax, have wound in and out

A Lesson in Economy. After the salts have settled in the tanks



which there is nothing on the face of the

From Bolivia to the Sea. Leaving the silver mining town of Oruro,

Bolivia, I came down the mountains on the little narrow gauge which connects that town with the seaport of Antofagasta, The distance is 600 miles, or about as great as that between New York and Cleveland. track is only two feet six inches wide, and the road is. I believe, the longest one of this gauge in the world. The cars are of the American style, having been built in Massachusetts. The seats on one side of the car are not wider than a kitchen chair, and on the other, where they are supposed to hold two, not more than thirty inches. It was in fact more like riding in is smooth and well laid. Its ties are of Oregon pine and the stations upon it are, as a rule, built of corrugated iron from Europe. The fares are exceedingly high. I paid 51 silver dollars for my ticket, and, in addition, \$35 extra baggage, as nothing whatever is allowed free. My meals at the dining stations each cost me \$1.50 in silver, and when I stopped at night, as I was forced to do twice on the road, the hotel rates were \$4 per day. The chief purpose of the road is to carry the silver and other metals to the seacoast. The most of the cars of our train were loaded with little chunks of silver ore, and we passed trainloads of tin on its way to the Pacific.

The Sait Plains of Bollvia.

after leaving Oruro we entered the salt after leaving Oruro we entered the sait plains of Bolivia. These are of vast extent, lining the road for hundreds of miles. In fact there are but few places between Oruro and the sea where the ground is not more or less mixed with sait, and in some districts it covers the land like a sheet of dirty white snow. Along some parts of the line it looks hard and icy, and you feel like jumping off the cars for a skate. At others it lies in guilles and again it only sprinkles the ground and a ragged growth of scrubby vegetation struggles up through it. The road runs for nearly the whole of its length through a desert valley, and this sait reaches away on each side to the hills. Here and there along the road are lakes upon which seem to be floating great cakes of ice. The cakes are not ice, however. They are borax, and in the great borax lake of Ascotan, Bolivia, there is enough borax to wash the heads of all humanity. This lake has, it is estimated, more than 160,000 tons of pure borax ready to be shipped to the markets of the world. I saw it on my left as I rode over the railroad on the way to the coast. It is about six miles square, and the borax in tiles in great masses, which, when taken out, look for all the world like the finest pure white spun silk wadded up or woven into lumps. The stuff is borax of lime, and is not so good. I am told, as the borax that comes from similar lakes in California. Still it is of considerable value, for the lake has just been sold to a syndicate of Germans for £90,000.

A Desert Paved With Gold.

ocean compared with the enormous value of the nitrate fields through which I crossof the nitrate heids through which I cross-ed as I neared the Pacific. These fields ex-tend north and south through this part of Chile for a distance of more than 300 miles, and their product is so valuable that they almost pave the desert of Chile with gold. They have produced millions upon mil-lions of tons of nitrate of soda, and it is estimated that more than 1,200,000 tons of nitrate will be shipped from them this year. The value of these nitrate deposits year. The value of these nitrate deposits runs high into the millions of dollars. When they were in the hands of the Peruvians they were rich, and now that they belong to Chile as a result of her war revenue from the export duty which she collects from them. The working of the fields is in the hands of foreigners, and more than \$100,000,000 worth of English capital is invested in the great offcinas or factories by means of which the nitrate I met in England some years ago the late Colonel North, the nitrate king, and visited him at his magnificent country place at Eltham, near London, He lived there like a prince and was at the time fairly rolling in wealth. All of his money

there like a prince and was at the time fairly rolling in wealth. All of his money was made in this region, and the champagne which we had at dinner, though its taste showed no evidence of the fact, was effervescent with nitrate of soda. The nitrate which the United States imported from this Iquique district alone in 1897 cost more than \$3,000,000 in gold, and the amount was more than 234,000,000 pounds.

The greater part of this has gone into the making of powder and high explosives, and much of it has already been used in the war with Spain. Another part of it has been sold as fertilizers, and is now enriching the soil of American farms. It is as a fertilizer that the chief demand for the nitrate comes, the bulk of the product going to Germany, where it is used in the growing of the sugar beet. Just now, however, the nitrate business is not as prosperous as it has been. A number of the factories are idle, and the markets are overstocked.

In the Nitrate Fields.

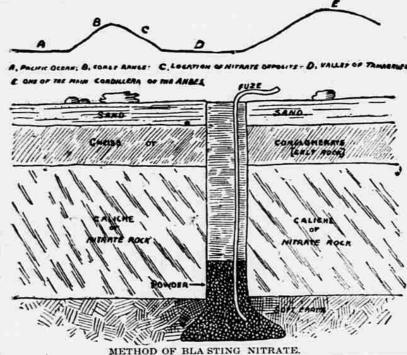
among mountains rich in tin, copper and silver, and now write almost in the midst is found from thirty to forty feet below the vast nitrate fields of Chile like unto the vast nitrate fields of Chile like unto the surface, with a strata of salt rock on top of it. The nitrate itself is seldom found back to the boiling tanks and is loaded top of it. The nitrate itself is seldom found pure in nature, though much of the rock contains from 40 to 60 per cent of nitrate. The Antofagasta rock does not contain more than 14 per cent of nitrate, and other fields vary with the nature of the deposit. It is the getting of the nitrate rock out of the earth and the extracting the pure nitrate salts from it that constitutes the immense industry of the pampas or nitrate fields. As to where the nitrate comes from there are a number of theories, One is that the desert was once the bed of an inland sea, and that the nitrate came from the decaying of the nitrogenous seaweed. Another theory is that the ammonia rising from the vast beds of guano on the islands off the coast was carried by the winds over the range of hills near the sea and there condensed, settled and united with other chemicals of the soil to form the deposits, and still a third is that the electrical

How Nitrate Is Mined.

We shall see how nitrate is mined by a visit to the great pampa of Tamrugal. This pampa or field has sixty miles of oficinas and nitrate fields. A railroad has been built through it to carry the nitrate to the seacoast at Iquique, and upon it has grown up vast factories, towns of corrugated iron huts, in which the tens of thousands of workmen employed in the business live, and the homes of the scores of well educated Europeans who live here and manage the properties. Leaving Iquique the railroad carries you up the hills and brings you right into the nitrate fields.

You are soon in a plain about twenty

ins of to-gay are a question of small sav-ings. We make so much that the difference of a cent in the cost of a quintal, or 100 pounds, is an important item. It would, in fact, mean to us a saving of at least \$1,200 a month." Mr. Humberstone also showed a month." Mr. Humberstone also showed me how the iodine of commerce is made from this nitrate liquor. It is an element separate and apart from the nitrate of soda and it forms another valuable product of the nitrate fields. It is precipitated in tanks by means of bisulphite of soda, and is drawn off in the shape of a dirty black powder. The powder is washed and filtered and in the nut into iron retorts and



miles wide, with low hills rising upward on the right and the left. On the side of this plain nearest the sea the earth looks as though it had been plowed by giants, and sizes. This is the nitrate fields which have been or are being worked. The rest of the land is bleak, bare sand. There is no vegetation and no sign of life of any kind. All is sand, sait rock and amid the clods nitrate rock which is called caliche. It is a soluble rock of different colors. In some places it is almost white and looks like rock sait. In others it is yellow, and in others all shades of gray, lemon, violet and green. The strata of nitrate usually lest two feet or more under the earth, and there is often a sait rock or conglomerate above it. The method of getting it out is to bore a round hole about a foot in diameter through the upper crust and to exter through the upper to bore a round hole about a foot in diameter through the upper crust and to extend it down for a few inches into the soft earth below it. Now into this hole a boy is let down. He scoops out a pocket for the blasting powder and arranges the fuse. He is then pulled out and the fuse is lighted. An explosion follows. A great yellow cloud of smoke and dust goes up into the air and the earth is broken up for a radius of about thirty feet about the hole. The nitrate rock is now dug off with picks and crowbars. It is broken into pieces of thirty pounds or less and is loaded upon iron carts to be taken to the factory. Each of these carts will hold three tons of rock and each is hauled by three mules, the driver sitting upon one of the animals.

My first view of the nitrate fields was on the railroad going to Antofagasta. The deposits in that part of Chile, however, are not so good as those further north, and I have taken ship and come to Iquique, which is the chief shipping port of the best nitrate is the chief shipping port of the best nitrate saids of the world. I have traveled from the pure nitrate of soda is left until it has to the ment are a great part of the wages of the men are spent upon the ground.

Cities in the Desert.

This is only one of the great establishments which the nitrate rock has built in a desert. It has built numerous other factories and it is now keeping tens of thoufactory. This usually stands in the mids

most careful management. The prices of nitrate lands have steadily risen of late most careful management. The prices of nitrate lands have steadily risen of late years and to-day the only properties to be gotten outside of those in the hands of the seventy-nine factories which are now in existence are from the Chilean government, which only sells at auctions, which are periodically held. The last auction was held in 1894, when 2,000 acres were appraised at \$3,500,000, and sold, I believe, for more than their appraisement. Another property was appraised at \$5,500,000 of our money. There is a limited demand for nitrate of soda, and while it is believed that the amount in sight will last the world at the present rate for fifty years and more, the Chilean government is anxious not to ruin the business out of which it gets so great a revenue by throwing more lands just now on the markets. Even after the land is bought it costs an enormous amount to establish a nitrate factory. Take that of Agua Santa. It has a capital of \$3,000,000 in gold, and it pays dividends of 10 per cent. or \$300,000 a year. The factory alone cost \$65,000, and in addition there has been put in a Westinghouse electric plant at a cost of \$16,000 more. It has buildings which cost \$212,000, and its water supply cost \$31,000,1000 in gold. It is now employing \$00 hands, who receive \$60,000 a month, and it supports about the works a colony of more than 3,000 souls. It owns a railroad to the seaport of Caleta Buena, which port also belongs to it, and from which it ships its nitrate. Like all of the factories, it has a large store connected with the works and a great part of the wages of the men are spent upon the ground.

Cities in the Desert.

This is only one of the great establish-

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and cold were normal.

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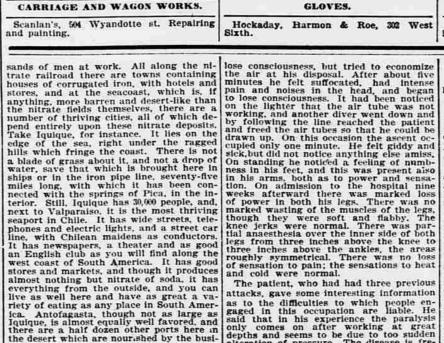
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languages it bears a similar name. The analogy that suggested this name becomes quite clear when we remember that the lion was the animal symbol of the sun. The yellow dandelion, with its golden rays, is a miniature representation of the sun, and, through association, its rays are identical with the lion's teeth.

There is a curious tradition to account for the wall flower that has been adopted by Herrick. In ancient days there was a castle near the River Tweed in which a maiden was imprisoned. She had given her love to the heir of a hostile clan, but, blood having been shed between the chiefs of the clans, the deadly hatred thus engendered forbade all thought of their union. The lover tried all sorts of strategems to gain access to his sweetheart, and at last succeeded in gaining admission to the castle disguised as a wandering troubadour. He planned her escape and was to await her arrival with an armed force. The result we may tell in Herrick's words:

Up she got upon a wall.

Attempted to slide withal:
But the silken twist united.
She feil, and, bruised, one died.
Love, in pity to the deed.
And her loving, luckless speed.



## "LONDINOPHOBIA."

are afflicted with Londinophobia, savagely criticise the conditions which there prevail. Here is a specimen attack: Innumerable are the menaces to health. And, socially, what a pandemonium is here! At the top, gayety without enjoyment; at the bottom, misery without hope; and in the midst, a fearful battle for life among combatants (including even women and children) drawn from all parts of Great Britain, from all parts of the British empire, and even from all parts of the world. We all know now-thanks to Darwin and Spencer—that the struggle for existence is nature's universal curse from the microbe up to man; but it rages with particular ferocity in this London, the center of the universe, the modern "orbis terrarum." Strange it is, then, that anyone should live in such a place unless compelled by dire necessity, and stranger still that any one should praise it unless infatuated through excess of civic patriotism. are afflicted with Londinophobia, savagely